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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/767,884 01/24/2001		Robert Williams	F0685	2559		
45114	7590 09/12/2005		EXAM	EXAMINER		
	ESNYDER, LLP	JEAN, FRANTZ B				
SUITE 300	ES MILL ROAD	ART UNIT	PAPER NUMBER			
FAIRFAX, V	'A 22030		2151			
			DATE MAILED: 09/12/2003	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary			Application No.		Applicant(s)				
		09/767,884		WILLIAMS, ROBERT					
			Examiner		Art Unit				
			Frantz B. Je	an	2151				
Period fo	The MAILING DATE of this commun or Reply	ication appe	ears on the d	over sheet with the c	orrespondence ad	ldress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr o period for reply is specified above, the maximum state the to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.136 munication. tatutory period will y will, by statute, of	TE OF THIS 6(a). In no event il apply and will e cause the applica	S COMMUNICATION, however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONEI	l. ely filed the mailing date of this co O (35 U.S.C. § 133).				
Status									
1)⊠	Responsive to communication(s) file	ed on 29 Apr	ril 2005.						
·	This action is FINAL . 2b) \boxtimes This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,_	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
4)⊠)⊠ Claim(s) <u>1-20</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
·	Claim(s) 1-20 is/are rejected.								
·									
	Claim(s) are subject to restriction and/or election requirement.								
Applicati	ion Papers								
	The specification is objected to by th	e Evaminer							
				objected to by the F	- - - - -				
10,	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)	The oath or declaration is objected to								
	ınder 35 U.S.C. § 119				7.0				
	•	for foreign a		- 25 LLC C C 440/-)	(4) == (5)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	a) All b) Some * c) None of:								
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 								
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 								
					u III uiis ivauonai	Stage			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
Coo the attached detailed Office action for a list of the certified copies flot received.									
A44a	4(a)								
Attachmen	t(s) e of References Cited (PTO-892)		4) Distancia de Company	(DTO 442)				
2) Notic	æ of References Cited (PTO-892) æ of Draftsperson's Patent Drawing Review (f	PTO-948)	4	4)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/28,7/13/05. 5) Notice of Informal Patent Application 6) Other:						O-152)			
•				· · -					

This office action is in response to applicant's arguments filed 04/29/05. Claims 1-20 are still pending in this application.

Terminal Disclaimer

The terminal disclaimer filed on 4/29/05 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of application with serial number 09/814,818 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 1/28/05 and 7/13/05 was filed after the mailing date of the non-final office action on 1/31/05. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

The double patenting rejection filed on 1/31/05 has been withdrawn.

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

was published under Article 21(2) of such treaty in the English language.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

⁽e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and

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Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukuzawa et al. (US Patent No. 5,247,620).

As per claim 1, Fukuzawa teaches a network device (bridge 1) connected to a host (management 49), located externally with respect to the network device (fig 1), the network device comprising comprising: a plurality of receive elements (39-40) configured to receive data from network stations (items 42-48; col. 6 lines 25-46); a plurality of transmit elements (39,40) configured to transmit data from the network device (col. 6 lines 25-46); an address table (address information RAM 101) configured to store a plurality of entries, (Fig 4; Fig 5,col 3, lines 11-12); an address register accessible by the host and configured to store an address of the entries in the address table (col 7, lines 51-54; fig 3, fig 5); an address table access port accessible by the host and configured to store contents of one of the entries in the address table (col. 7, lines 51-54; fig 3; fig 5); table access logic (hash address generator 103, selector 104, control circuit 102) configured to receive a command from the host to read one of the entries in the address table, locate the one entry in the address table in response to the command, store an address of the one entry in the address register for access by the host, and store contents of the one entry in the address table access port for access by the host (col 8, lines 16-32).

As per claims 2 and 4, Fukuzawa teaches receiving command from the host to read a next one of the entries in the address table, locate the next entry in the address table store an address of the next entry in the address register for access by the host, and store contents of the next entry in the address table access port for access by the host (col. 8 lines 4 et seq).

As per claim 3, wherein the table access logic is further configured to read an address from the address register to identify a currently addresses one of the entries, read a pointer from the currently addressed entry, and locate the next entry using the pointer (col 8, lines 4-15)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action: The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuzawa (US Patent No. 5,247,620) and further in view of Flavin et al. (U.S. Patent 6,108,308).

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As per claim 5, Fukuzawa does not explicitly disclose the entries include bin entries and heap entries, at least one of the bin entries including a pointer to one of the heap entries, at least one of the heap entries including a pointer to another one of the heap entries. However, Flavin disclose a dynamic routing network device comprising of bin entries and heap entries, at least one of the bin entries including a pointer to one of the heap entries, at least one of the heap entries including a pointer to another one of the heap entries (FIG. 99 column 12, line 60 to column 14, line 3). An ordinary skill in the art at the time the invention was made would have been motivated to look for a way to improve routing of information from one of more sources to one or more destinations (see Flavin: column 3, lines 13-19) as the size of networks continue to grow. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined the inventions of Fukuzawa and Flavin to provide a network device utilizing pointers and heaps for more efficient dynamic routing.

Claims 6-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over (US Patent No. 5,247,620) to Fukuzawa in view of Lawler et al. (US Patent 5,978951).

As per claims 6 and 8-20, Fukuzawa disclose a network device comprising an input data holding register, locate entry (col 7 line 60 to col. 8 line 15), address table to store address entries (FIG. 5; FIG. 7), table access logic (col. 8 line 1 et seg), applying hashing function to data in the register (col 8 lines 33-58) and functionalities associated to store, search the entries. However, Fukuzawa did not expressly disclose using virtual local area network (VLANI identifier within the entries or the function of overwriting/modifying/deleting entries. Lawler taught a network device for managing cache addresses utilizing an Address Cache ASIC with various functionalities to increase efficiency. However, Lawler disclose receiving a modify entry command, locate one of the entries in the address table to modify using the data from the register, and overwrite the located entry with the data from the register (column 12, lines 9-1 92. An ordinary artisan at the same time the invention was made would have been motivated to look for a way to speed up address processing in a network environment (column 2, lines 19-43, Fukuzawa), (column 2, lines 43-462 Lawler). The VLAN identifier offers greater network management flexibility and the function overwrite enables a more efficient update scheme in contrast to Fukuzawa's system whereby one of ordinary skill in the art would have to issue a delete followed by a store command in order to achieve the same result. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have combined the inventions of Fukmzawa and Lawler to provide a more efficient network-switching device utilizing VLAN and the functionality of overwrite.

As per claim 7, Fukuzawa teaches wherein the table access logic is further configured to receive an insert table entry command from the host, find a location in the address table to create a new entry in response to the insert table entry command, and store the data from the input data holding register at the location in the address table. (col 8, lines 16-32).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantz B. Jean whose telephone number is 571-272-3937. The examiner can normally be reached on 8:30-6:00 M-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571 272 3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frantz Jean

FRANTZ B. JEAN PRIMARY EXAMINER